

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
23 August 2001 (23.08.2001)

PCT

(10) International Publication Number  
**WO 01/61625 A3**

(51) International Patent Classification<sup>7</sup>: **G06K 11/18**,  
G06F 3/033

Magnus [SE/SE]; Filippavägen 6A, S-222 41 Lund (SE).  
**GÄRDENFORS, Torbjörn** [SE/SE]; Kornettsgatan 24A,  
S-211 50 Malmö (SE). **JÖNSSON, Torsten** [SE/SE];  
Kornvägen 19, S-245 43 Staffanstorp (SE).

(21) International Application Number: PCT/EP01/01397

(22) International Filing Date: 9 February 2001 (09.02.2001)

(74) Agent: **ERICSSON MOBILE PLATFORMS AB**;  
SE-221 83 Lund (SE).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/182,742 16 February 2000 (16.02.2000) US  
60/190,343 16 March 2000 (16.03.2000) US  
60/192,662 28 March 2000 (28.03.2000) US  
60/244,775 31 October 2000 (31.10.2000) US  
09/772,683 30 January 2001 (30.01.2001) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

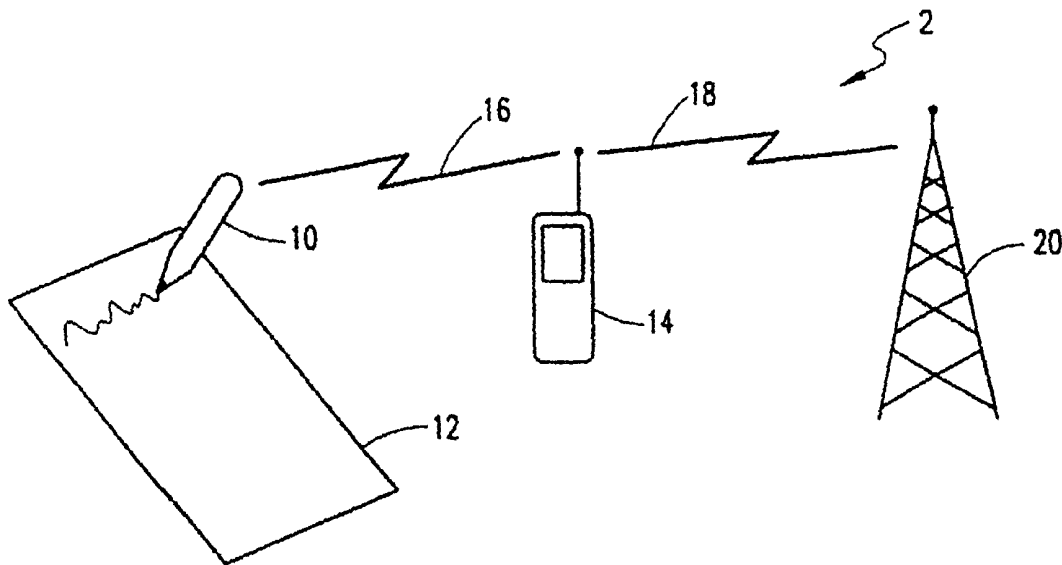
(71) Applicant (*for all designated States except US*): **TELEFONAKTIEBOLAGET LM ERICSSON (publ)** [SE/SE]; S-126 25 Stockholm (SE).

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and  
(75) Inventors/Applicants (*for US only*): **HOLLSTRÖM**,

[Continued on next page]

(54) Title: ELECTRONIC PEN FOR E-COMMERCE IMPLEMENTATIONS



(57) Abstract: A method and apparatus for performing electronic commerce transactions uses an electronic reading device having a sensor that detects portions of an address pattern. An electronic commerce client communicates with a remote electronic commerce server to perform an electronic commerce transaction in accordance with portions of the address pattern detected by the sensor. For example, the detected portions of the address pattern can be converted by the electronic commerce client into electronic commerce transaction data and sent to the electronic commerce server.



WO 01/61625 A3



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**

14 March 2002

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/EP 01/01397

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06K11/18 G06F3/033

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**  
Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06K G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 905 248 A (RUSSELL GARRETT ET AL) 18 May 1999 (1999-05-18)	1-3,9, 15,16
Y	column 1, line 60 -column 3, line 26	5-8, 11-14
Y	--- WO 00 00928 A (LCI SMARTPEN NV) 6 January 2000 (2000-01-06) the whole document	5-8, 11-14
A	--- EP 0 717 367 A (SYMBIOS LOGIC INC) 19 June 1996 (1996-06-19) the whole document	6,12-14
A	--- US 5 477 012 A (SEKENDUR ORAL F) 19 December 1995 (1995-12-19) the whole document	1,9
	-/--	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed
- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search  18 October 2001	Date of mailing of the international search report  25/10/2001
--	--

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Rydman, J
--	-------------------------------------

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 01/01397

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 48654 A (SKANTZE KRISTOFER ;WIEBE LINUS (SE); ANOTO AB (SE); ERICSON PETTER) 5 July 2001 (2001-07-05) page 3, line 1 -page 13, line 5 figure 1 -----	1-6, 9-13,15

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/01397

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5905248	A	18-05-1999	US 6152369 A	28-11-2000
			US 5992752 A	30-11-1999
			US 6076733 A	20-06-2000
			US 5869819 A	09-02-1999
			US 5844227 A	01-12-1998
			US 6286760 B1	11-09-2001
			US 5808285 A	15-09-1998
			US 5557093 A	17-09-1996
			US 5525789 A	11-06-1996
			US 5661292 A	26-08-1997
			US 5484992 A	16-01-1996
			US 5591953 A	07-01-1997
			US 5616908 A	01-04-1997
			US 5874721 A	23-02-1999
			US 5260553 A	09-11-1993
			US 6068188 A	30-05-2000
			AU 5367998 A	22-06-1998
			AU 5513498 A	22-06-1998
			AU 7411698 A	22-06-1998
			BR 9713416 A	18-04-2000
			BR 9713425 A	25-01-2000
			BR 9713426 A	25-01-2000
			CN 1256772 A	14-06-2000
			CN 1246939 A	08-03-2000
			EP 0950226 A1	20-10-1999
			EP 0958546 A1	24-11-1999
			EP 1019844 A1	19-07-2000
			WO 9824049 A1	04-06-1998
			WO 9824036 A1	04-06-1998
			WO 9824050 A1	04-06-1998
			US 6227450 B1	08-05-2001
			US 6045048 A	04-04-2000
			US 6257492 B1	10-07-2001
			US 6027024 A	22-02-2000
			US 5905251 A	18-05-1999
			US 6283375 B1	04-09-2001
			US 6290132 B1	18-09-2001
			US 6182898 B1	06-02-2001
			US 6299067 B1	09-10-2001
			US 5767501 A	16-06-1998
			US 5942743 A	24-08-1999
			US 5796091 A	18-08-1998
			US 6073846 A	13-06-2000
			US 6085978 A	11-07-2000
			US 5984185 A	16-11-1999
			US 6112990 A	05-09-2000
			US 6003772 A	21-12-1999
			US 6199759 B1	13-03-2001
			US 6085980 A	11-07-2000
			US 5975419 A	02-11-1999
WO 0000928	A	06-01-2000	AU 4835299 A	17-01-2000
			CN 1312930 T	12-09-2001
			EP 1101188 A1	23-05-2001
			WO 0000928 A1	06-01-2000
EP 0717367	A	19-06-1996	DE 69522423 D1	04-10-2001
			EP 1130536 A2	05-09-2001

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/01397

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
EP 0717367	A		EP 0717367 A1	19-06-1996
			JP 8221189 A	30-08-1996
			US 2001000026 A1	15-03-2001
			US 6195446 B1	27-02-2001
US 5477012	A	19-12-1995	WO 9722959 A1	26-06-1997
			AU 4529896 A	14-07-1997
			US 5852434 A	22-12-1998
			EP 0892971 A1	27-01-1999
WO 0148654	A	05-07-2001	SE 0000946 A	24-06-2001
			WO 0148592 A1	05-07-2001
			WO 0148654 A1	05-07-2001
			SE 9904746 A	24-06-2001